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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/037,194		11/09/2001	Haruyama Shinichi	678-756 (P9786)	6677
28249	7590	08/15/2005		EXAMINER	
		RRESE, LLP FON BLVD.	JAMAL, ALEXANDER		
UNIONDA				ART UNIT	PAPER NUMBER
				2643	
				DATE MAILED: 08/15/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/037,194	SHINICHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Alexander Jamal	2643				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status	·					
1)⊠ Responsive to communication(s) filed on 24 June 2005.						
	s action is non-final.					
Disposition of Claims						
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc	·	xaminer				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (RTO 892)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Ll Interview Summary (Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	_ 	atent Application (PTO-152)				

Application/Control Number: 10/037,194 Page 2

Art Unit: 2643

DETAILED ACTION

Response to Amendment

- 1. Based upon the submitted amendment (6-24-2005), the examiner notes that claims 1 and 6 have been amended.
- 2. Examiner notes that 2 sets of rejections have been applied to claims 1,2,6.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1,2 rejected under 35 U.S.C. 102(e) as being anticipated by Taenzer (5905473).

As per claim 1, Taenzer discloses a plurality of antennas with each antenna coupled to phase control means (Col 3 lines 40-64, Col 5 lines 25-60, Figs. 8a-8g). The antennas are dipole antennas (Col 2 lines 47-59). Power is 'fed' to the reflective antenna's via RF waveforms.

Application/Control Number: 10/037,194 Page 3

Art Unit: 2643

As per claim 1, Taenzer additionally discloses a system (Fig. 5, Col 3 lines 5-12) comprising a plurality of antennas with power fed from line feed 57 and having phase control means 53,55 for each antenna.

As per claim 2, the phase control means will adjust the power distribution ratio by varying the phases (and as such, the amplitudes) of each respective antenna signal.

Additionally, in Fig. 5, the variable resistances will also adjust the power distribution ratio.

5. Claims 3-5 rejected under 35 U.S.C. 102(e) as being anticipated by Tran (6184833).

As per claims 3,4, Tran discloses a portable phone (Fig. 14a,14b) with a dual strip antenna (dipole antenna pattern) arranged on a PCB surface (Col 6 line 61 to Col 7 line 5) opposite to a mounted speaker in the device (Col 5 lines 45-55) (Col 10 lines 5-20).

As per claim 5, the antenna (and it's dielectric) form a multi-layered structure to be mounted of the PCB (Fig. 4).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

Art Unit: 2643

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claim 6 rejected under 35 U.S.C. 103(a) as being unpatentable over Tran (6184833), and further in view of Taenzer (5905473).

As per claim 6, Tran discloses a portable phone comprising a dipole antenna mounted on a PCB opposite a speaker (as per claim 3-5 rejections). However, Tran does not disclose that the antenna is a set of dipole antennas that are fed the same power through phase control means.

Taenzer discloses a plurality of antennas with each antenna coupled to phase control means as per the rejection of claims 1,2. Taenzer further teaches that an array of phase controlled antennas may be used to control the direction of the radiated energy (Col 3 lines 40-62). It would have been obvious to one of ordinary skill in the art at the time of this application that an array of antennas with phase controlled power-feed could be used in the portable phone for the advantage of greater control of the radiated signals.

Response to Arguments

- 8. Applicant's arguments with respect to claims 1,2,6 have been considered but are moot in view of the new ground(s) of rejection.
- 9. Applicant's arguments with respect to claims 3-5 have been fully considered but they are not persuasive.

As per applicant's arguments (remarks page 6) that Taenzer does not control the phase of a 'fed power', examiner reads a 'feeding power' as any signal that is applied to the antenna. Examiner further notes delay elements (Fig. 8) that will control the phase of any signal (power) fed (or to be fed) to the antenna.

As per applicant's arguments that Taenzer does not teach all the elements of claim 3 (remarks page 6), examiner agrees and assumes applicant was referring to the Tran reference in the arguments. The Tran reference discloses that the antennas may be mounted 'adjacent to, or behind' other elements. Examiner reads 'behind' as on a side opposite to a speaker mounted side of a pcb board. If the antenna were mounted in between the speaker and pcb then the antenna would be 'adjacent' to the speaker.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Page 6

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Jamal whose telephone number is 571-272-7498. The examiner can normally be reached on M-F 9AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis A Kuntz can be reached on 571-272-7499. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and 571-273-8300 for After Final communications.

August 10, 2005

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